

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	7	(sueoka and tsukuda).in.	US-PGPUB; USPAT	OR	OFF	2008/06/06 15:57
S2	0	(nakajima and yashiro and tsukuda).in.	US-PGPUB; USPAT	OR	OFF	2008/06/06 15:59
S3	0	(ito and yamasita and tsukuda).in.	US-PGPUB; USPAT	OR	OFF	2008/06/06 16:00
S4	0	("aromatic polyamide film and magnetic recording").ti.	US-PGPUB; USPAT	OR	OFF	2008/06/06 16:01
S5	39	((heat or heating) same (shrink or shrinkage)) and ("heat treatment" and "no tension") and "Young's"	US-PGPUB; USPAT	OR	ON	2008/06/06 16:05
S6	0	("428"/\$ or "528"/\$ or "360"/\$).ccls. and ("heat shrinkage" or "thermal shrinkage") same (min or minutes) and "aromatic polyimide"	US-PGPUB; USPAT	OR	OFF	2008/06/08 16:44
S7	0	("428"/\$ or "528"/\$ or "360"/\$).ccls. and ("heat shrinkage" or "thermal shrinkage") and "aromatic polyimide"	US-PGPUB; USPAT	OR	OFF	2008/06/08 16:46
S8	38	((heat or thermal) same (shrink or shrinkage)) and ("heat treatment" and "no tension") and "Young's"	US-PGPUB; USPAT	OR	ON	2008/06/08 16:47
S9	39	((heat or heating) same (shrink or shrinkage)) and ("heat treatment" and "no tension") and "Young's"	US-PGPUB; USPAT	OR	ON	2008/06/08 16:47
S10	1	S8 not S9	US-PGPUB; USPAT	OR	ON	2008/06/08 16:47
S11	1	(tsukuda and ieki and nakajima).in.	US-PGPUB; USPAT	OR	ON	2008/06/08 17:16
S12	340	((heat or thermal) same (shrink or shrinkage)) and ("heat treatment" and "tension") and "aromatic polyamide"	US-PGPUB; USPAT	OR	ON	2008/06/08 17:19

S14	0	S12 and ((".degree. C") with "tension")	US-PGPUB; USPAT	OR	ON	2008/06/08 17:22
S15	74	S12 and (("no" or without) with "tension")	US-PGPUB; USPAT	OR	ON	2008/06/08 17:22
S16	25	S15 and "magnetic recording".ab.	US-PGPUB; USPAT	OR	ON	2008/06/08 17:23
S17	49	S15 not S16	US-PGPUB; USPAT	OR	ON	2008/06/08 17:34
S18	0	((heat or thermal) same (shrink or shrinkage) and ("heat treatment" and "tension") and "aromatic polyamide" and (".alpha.MD") and (".alpha.TD" )	US-PGPUB; USPAT	OR	ON	2008/06/09 13:42
S19	0	"aromatic polyamide" and (".alpha.MD") and (".alpha.TD" )	US-PGPUB; USPAT	OR	ON	2008/06/09 13:44
S20	0	polyamide and (".alpha.MD") and (".alpha.TD" )	US-PGPUB; USPAT	OR	ON	2008/06/09 13:44
S21	0	((heat or thermal) same (shrink or shrinkage) and ("heat treatment" and "tension") and "aromatic polyamide" and (".alpha.MD") and (".alpha.TD" )	US-PGPUB; USPAT	OR	ON	2008/06/09 13:44
S22	0	(".alpha.MD") and (".alpha.TD")	US-PGPUB; USPAT	OR	ON	2008/06/09 13:45
S23	0	".alpha.MD" and ".alpha.TD"	US-PGPUB; USPAT	OR	ON	2008/06/09 13:45
S24	1	"6376043".pn.	US-PGPUB; USPAT	OR	ON	2008/06/09 13:57
S25	1	"20070082232".pn.	US-PGPUB; USPAT	OR	ON	2008/06/09 14:07
S26	1	"20030235715".pn.	US-PGPUB; USPAT	OR	ON	2008/06/09 18:24
S27	0	"aromatic polyamide" and "hygroscopic expansion"	US-PGPUB; USPAT	OR	ON	2008/06/11 16:10
S28	30	"aromatic polyamide" and "hygroscopic expansion"	US-PGPUB; USPAT	OR	ON	2008/06/11 16:11
S29	11	S28 and "Young's"	US-PGPUB; USPAT	OR	ON	2008/06/11 16:20
S31	621	FALASOO.xa.	US-PGPUB; USPAT	OR	ON	2008/06/12 14:14

S32	4	"5874519"	US-PGPUB; USPAT	OR	ON	2008/06/13 14:24
S33	50	("5948554" "6251196" "6287530" "6291052" "6399147" "6444328" "6632520" "6806804" "6853473" "20030137718" "20030211360" "20040041679" "20060215330" "20070082232" "5815060" "3920988" "4087291" "4090892" "4115106" "6251556" "6323298" "6413327" "6421519" "6435263" "6466320" "6472488" "6475302" "6537463" "6682834" "7158354" "7168177" "7229706" "7286025" "7358638" "7364628" "20010020495" "20020014321" "20020037441" "20020084001" "20020171311" "20040141260" "20040149357" "20040218311" "20050168089" "20060006956" "20070160875" "20070193504" "6231778" "5031186" "6258890" ).pn.	US-PGPUB; USPAT	OR	ON	2008/06/13 16:02
S34	1	"5874519".pn.	US-PGPUB; USPAT	OR	ON	2008/06/14 14:43
S35	1	"6376043".pn.	US-PGPUB; USPAT	OR	ON	2008/06/14 16:49
S36	0	"2001000871".pn.	US-PGPUB; USPAT	OR	ON	2008/06/14 16:50
S37	1	"20010008714".pn.	US-PGPUB; USPAT	OR	ON	2008/06/14 16:50
S38	1	"6274220".pn.	US-PGPUB; USPAT	OR	ON	2008/06/14 16:52
S39	1	"6210775".pn.	US-PGPUB; USPAT	OR	ON	2008/06/14 16:53
S40	1	"4645702".pn.	US-PGPUB; USPAT	OR	ON	2008/06/14 16:54

S41	1	"20030235715"	US-PGPUB; USPAT	OR	ON	2008/06/16 17:02
S42	0	"200700033798"	US-PGPUB; USPAT	OR	ON	2008/06/16 21:08
S43	1	"20070003798"	US-PGPUB; USPAT	OR	ON	2008/06/16 21:08
S44	245	(428/847 or 428/847.1 or 428/847.4 or 428/847.8 or 428/848.8).cols.	US-PGPUB; USPAT	OR	ON	2008/06/17 14:23
S45	1678	(528/310 or 528/324).cols.	US-PGPUB; USPAT	OR	ON	2008/06/17 14:25
S46	0	(S44 or S45) and ((heat or thermal) same (shrink or shrinkage)) and ("heat treatment" and "tension") and "aromatic polyamide" and (".alpha.MD") and (".alpha.TD")	US-PGPUB; USPAT	OR	ON	2008/06/17 14:25
S47	0	(360/131 or 360/134 or 360/135).cols. and ((heat or thermal) same (shrink or shrinkage)) and ("heat treatment" and "tension") and "aromatic polyamide" and (".alpha.MD") and (".alpha.TD")	US-PGPUB; USPAT	OR	ON	2008/06/17 14:26
S48	0	(428/141 or 427/128).cols. and ((heat or thermal) same (shrink or shrinkage)) and ("heat treatment" and "tension") and "aromatic polyamide" and (".alpha.MD") and (".alpha.TD")	US-PGPUB; USPAT	OR	ON	2008/06/17 14:27
S49	1	"6797381".pn.	US-PGPUB; USPAT	OR	ON	2008/06/17 14:38
S50	2	"6797381".pn.	USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/17 14:39
S51	1	"20070003799"	USPAT; EPO; JPO; DERWENT	OR	ON	2008/06/17 16:18
S52	1	"20070003799"	US-PGPUB; USPAT	OR	ON	2008/06/17 16:19
S53	1	"20070009768"	US-PGPUB; USPAT	OR	ON	2008/06/17 16:21
S54	2117	(360/131 or 360/134 or 360/135).cols.	US-PGPUB; USPAT	OR	ON	2008/12/23 18:28

S55	4141	(428/141 or 427/128).ccls.	US-PGPUB; USPAT	OR	ON	2008/12/23 18:28
S56	7773	(428/141 or 428/847 or 428/847.1 or 428/847.4 or 428/847.8 or 428/848.8 or 528/310 or 528/324 or 360/131 or 360/134 or 360/135 or 427/128).ccls.	US-PGPUB; USPAT	OR	ON	2008/12/23 18:42
S57	8	(S54 or S55 or S56) and ((heat or thermal) same (shrink or shrinkage)) and ("heat treatment" and "no tension") and "Young's"	US-PGPUB; USPAT	OR	ON	2008/12/23 18:43
S58	0	(magnetic and recording and medium and layer and surface and film and formed and aromatic and polyamide and heat and shrinkage and ratio and transverse and direction and subjected and treatment and under and condition and tension and no and for and "30" and min and "180" and C and "1.0" and "2.5" and satisfies and following and equations and simultaneously and MD and TD and being and coefficient and thermal and expansion and longitudinal and respectively and RH and coefficient and hygroscopic and expansion and EMD and GPa and ETD and young's and moduli and EMD and "16" and "0.7" and "1.7").clm.	US-PGPUB; USPAT	OR	ON	2008/12/23 19:09
S59	3	(428/458 or 428/459).ccls. and ((heat or thermal) same (shrink or shrinkage)) and ("heat treatment" and "no tension") and "Young's"	US-PGPUB; USPAT	OR	ON	2008/12/23 19:39

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